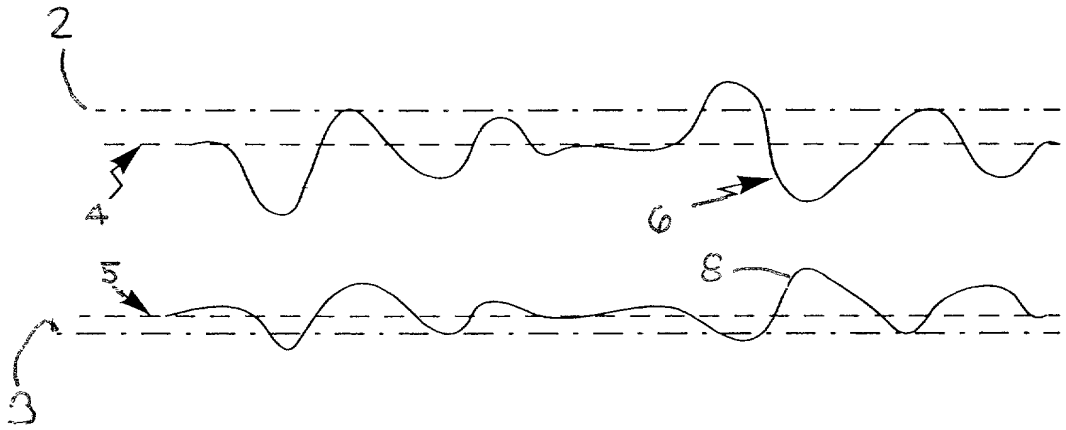

FIG 1

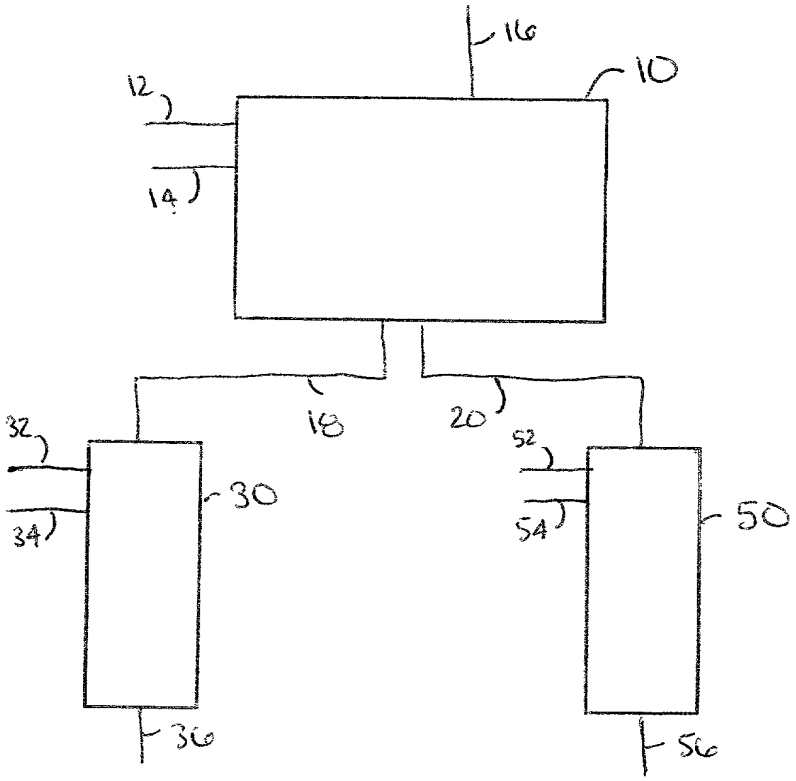

FIG. 2

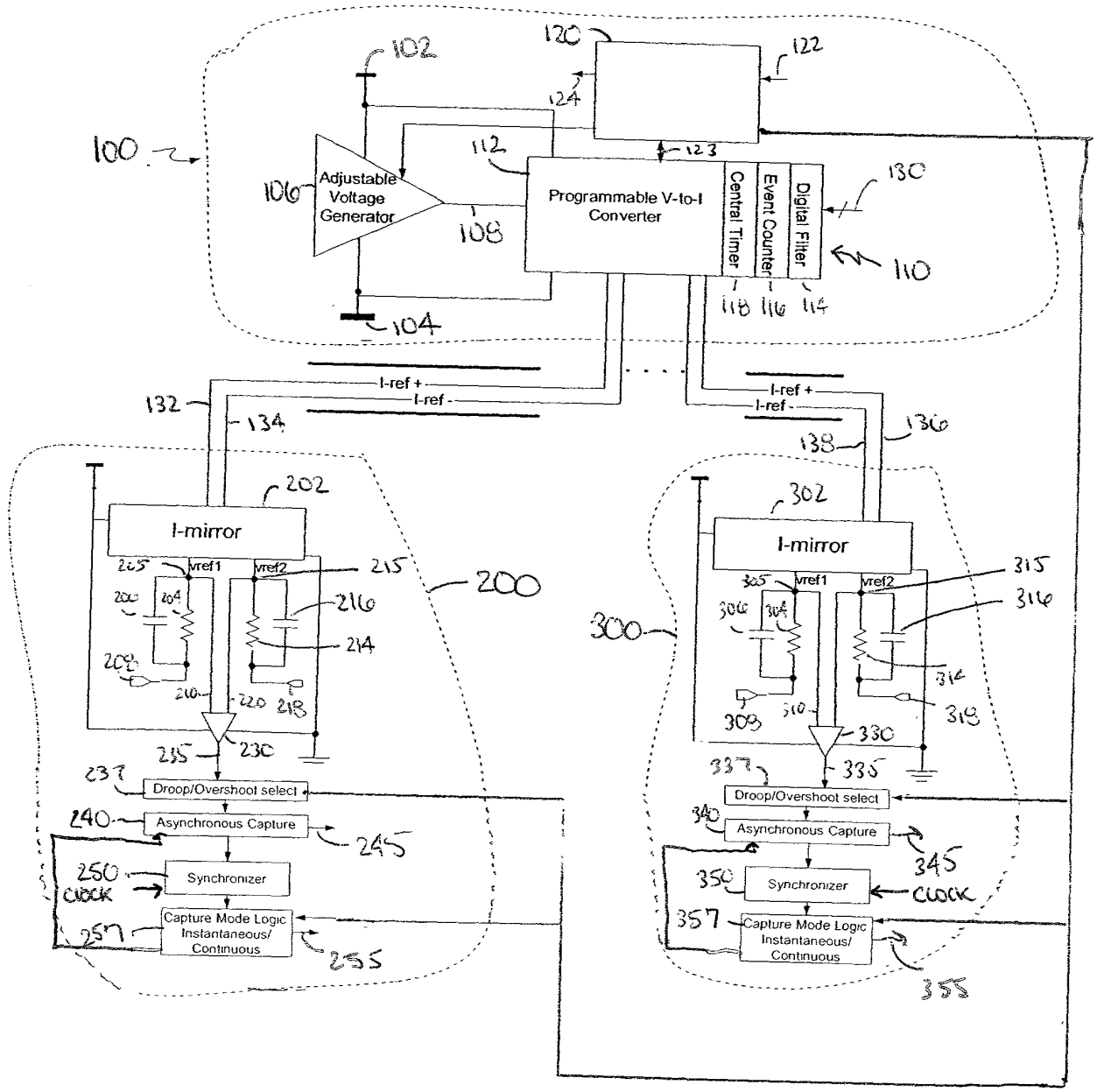
100
102
104
106
Adjustable Voltage Generator
108
112
120
122
123
124
130
Programmable V-to-I Converter
Central Timer
Event Counter
Digital Filter
110
118
116
114
I-ref +
I-ref -
132
134
136
138
200
202
I-mirror
205
vref1
vref2
215
216
214
204
206
208
210
220
218
225
230
237
Droop/Overshoot select
240
Asynchronous Capture
245
250
CLOCK
Synchronizer
257
Capture Mode Logic Instantaneous/ Continuous
255
300
302
I-mirror
305
vref1
vref2
315
316
306
304
314
309
310
318
330
337
335
Droop/Overshoot select
340
Asynchronous Capture
345
350
Synchronizer
CLOCK
357
Capture Mode Logic Instantaneous/ Continuous
355

FIG. 3

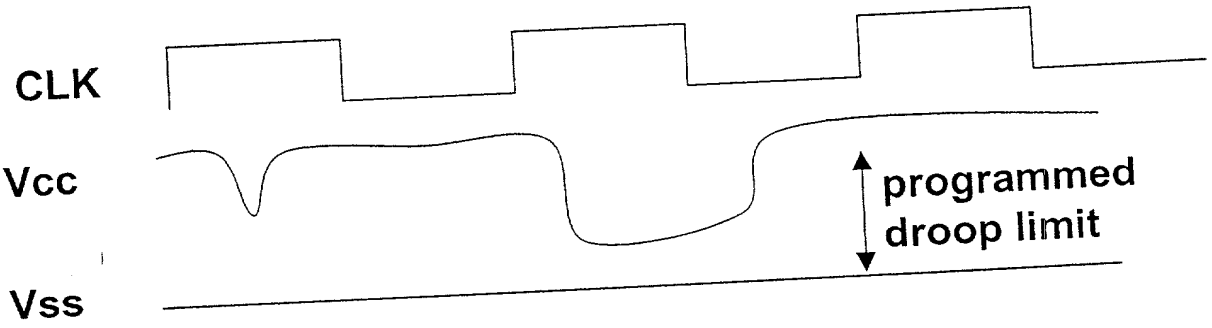

FIG. 4

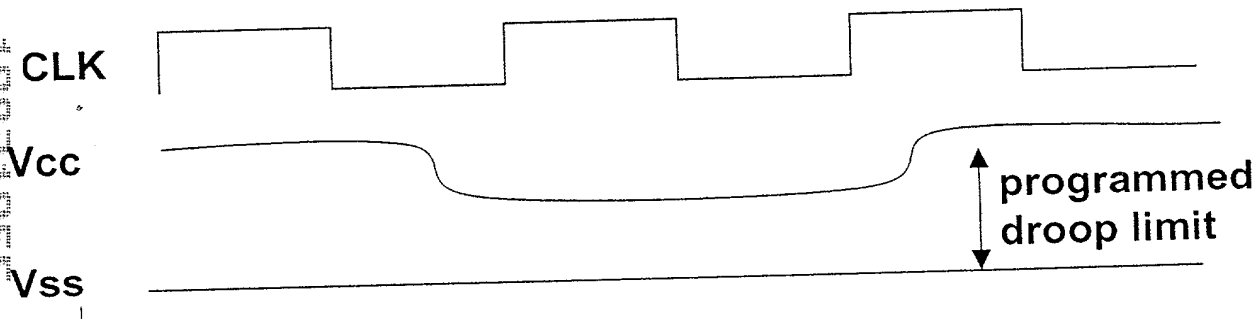

FIG. 5

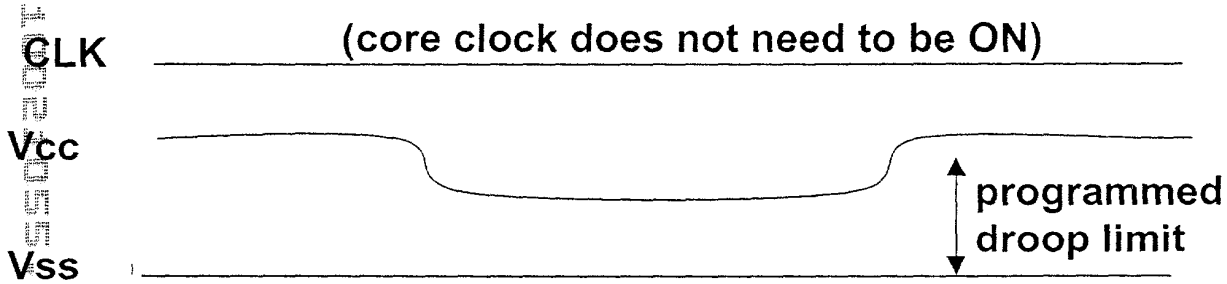
CLK
(core clock does not need to be ON)
Vcc
programmed
droop limit
Vss

FIG. 6

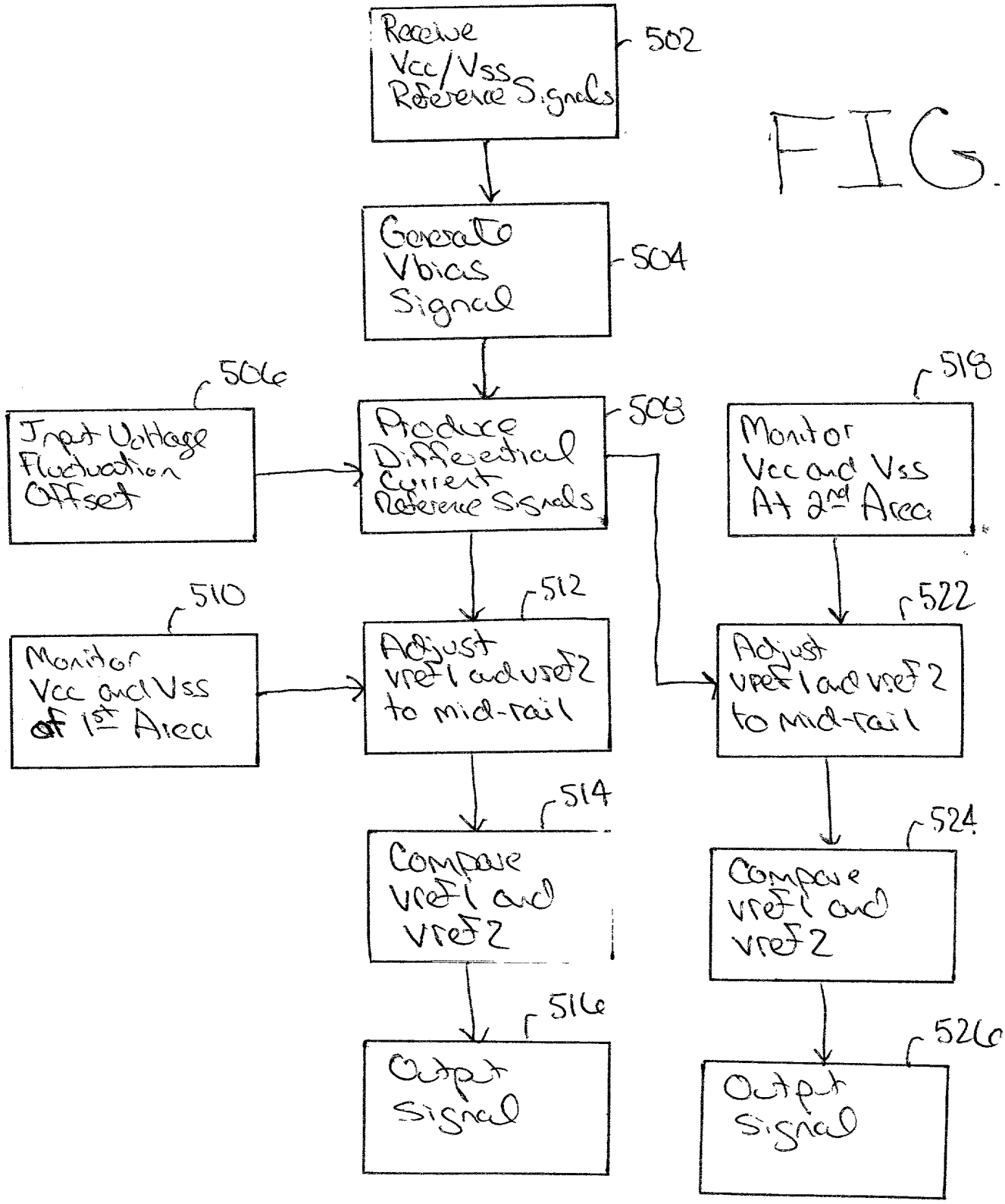

FIG. 7

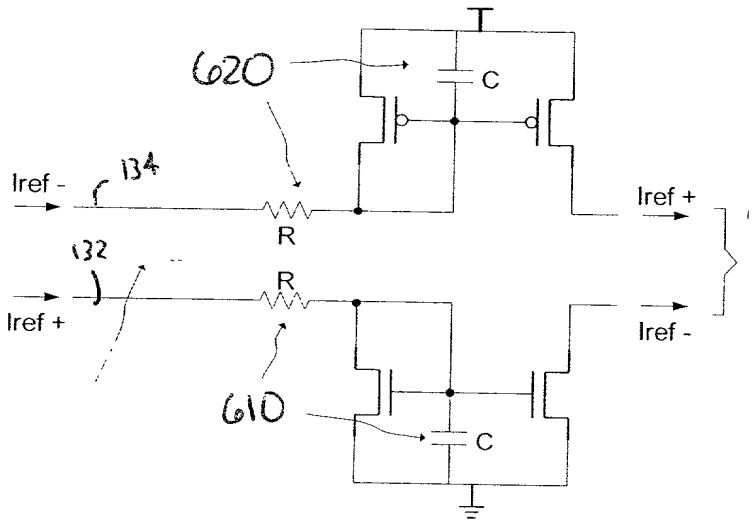

FIG 8